

Derrick Lin

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Relevant Links: [LinkedIn](#) | [GitHub](#) |

EDUCATION

University of California, San Diego

Expected: June 2025

Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation), GPA: 3.5

Relevant Courses: Software Engineering, Data Structures/Algorithms, Machine Learning, Quantitative Finance, Operating Systems, Computer Graphics, Computer Architecture

Academic Awards: Provost Honors (3x)

WORK EXPERIENCE

Supermicro

June 2024 - Present

System Engineer (GPU Team)

San Jose, CA

- Modified ARS-221GL-NR system to add 2 additional Nvidia H100 NVL GPUs, utilizing **NVLink** and the Nvidia Grace superchip to **decrease data processing times by 50%**
- Utilized **Horovod** to orchestrate distributed deep learning training across multiple GPUs, significantly enhancing computational efficiency and model training speed
- Developed and trained neural network architectures in **C++** using **Caffe**, leveraging **CUDA for GPU-accelerated processing**, significantly enhancing performance in deep learning tasks

CodePath

May 2024 - Present

Tech Fellow

San Francisco, CA

- Mentored **30 students** weekly in algorithms and data structures, improving their problem-solving accuracy by **25%**

Stanford University

April 2024 - June 2024

Section Leader

Palo Alto, CA

- Educated over **300 students** in Python programming and data structures, achieving a **95% satisfaction rating**
- Led interactive weekly lab sessions for **100+ students** and prepared comprehensive lesson plans
- Assisted students with programming assignments during biweekly office hours, aiding over **15 students per week**

Qualcomm Institute

January 2024 - June 2024

Software Engineering Intern

La Jolla, CA

- Developed a high-resolution **digital twin** of the UCSD Campus using drone-based 3D photogrammetry and modeling
- Enhanced solar panel positioning and weather modeling by integrating **Python** scripting in Unreal Engine with a C++ plugin and utilizing the **AWIPS library** to optimize daily sunlight variations

LearnWise AI

October 2023 - December 2023

Software Engineering Intern

Remote, CA

- Developed and deployed **AWS Lambda** functions, resulting in faster response times for products like chatbots
- Used **Python** and **boto3** to initiate AWS batch jobs to sort and clean customer data, resulting in a **40% reduction** in manual work through automated data processing tasks

LEADERSHIP EXPERIENCE

Computer Science and Engineering Society (CSES) at UCSD

September 2023 - June 2024

Event Director

La Jolla, CA

- Directed **40+ technical workshops and social events** annually, reaching over **2000 students**
- Launched a **mentorship program** that increased student participation in computer science by 50%

PROJECTS

Dev Journal | [Demo](#) | [Github Code](#) | (HTML, CSS, JavaScript, Node.js, Express.js, Jest-Puppeteer, SQLite)

2024

- Created a privacy-focused note-taking application using **AGILE methodologies**, improving data security and user experience
- Integrated a database to enforce character limits on posts, enhancing data integrity and user experience

Fossil Fuel Predictor | [Demo](#) | [Github Code](#) | (Flask, HTML, CSS, JavaScript, Python)

2024

- Developed a data analysis platform to analyze and visualize correlations between dinosaur bone discoveries and fossil fuel production
- Developed a **SARIMA-based** predictive model to accurately forecast future trends in fossil fuel production, leveraging seasonal and historical data patterns to enhance prediction precision

TECHNICAL SKILLS

Languages | Java, Python, JavaScript, Typescript, C, C++, HTML, CSS, Swift, MATLAB

Technologies | React, Node.js, Next.js, FastAPI, PostgreSQL/SQLite, MongoDB, Express, Git, JUnit, TensorFlow, PyTorch

Software | AWS, Google Cloud Platform, Heroku, Valgrind, Firebase, Postman